File date: 08 April 2004

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031 U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

| | Substitute for form 1449A/ | РТО | | Complete if Known | | | |
|----------|----------------------------|--------------|------------|------------------------|----------------|--|--|
| • | INFORMATI | ON DI | SCLOSURE | Application Number | To be assigned | | |
| | STATEMEN' | | | Filing Date | April 8, 2004 | | |
| | STRI ENIET | 1 101 /1 | · | First Named Inventor | Khan et. al. | | |
| | | | | Group Art Unit | To be assigned | | |
| | (use as mai | ny sheets as | necessary) | Examiner Name | To be assigned | | |
| <u> </u> | Sheet 1 | of | 4 | Attorney Docket Number | 3077-6420US | | |

| Document Number Name of Patentee or Applicant of | | | | | | | | |
|--|---------------|--|--------------------------------|-------------------------|---|--|--|--|
| Examiner Initials * | Cite No. I | Number - Kind Code ² (if known) | Publication Date MM-DD-YYYY | Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear | | | |
| KRS | 1 | #US- 4,977,244 | 12-11-1990 | Muchmore et al. | | | | |
| | | US-5,300,660 | 01-10-1999 | Herron | | | | |
| KRS | | #US- 5,677,275 | 10-14-1997 | Lunardi-Iskandar et al. | | | | |
| | | #US- 5,851,997 | 12-22-1998 | Harris | ······································ | | | |
| | | #US- 5,877,148 | 03-02-1999 | Lunardi-Iskandar et al. | | | | |
| | | #US- 5,958,413 | 09-28-1999 | Anagnostopulos et al. | | | | |
| | | #US- 5,968,513 | 10-19-1999 | Gallo et al. | | | | |
| | L | #US- 5,997,871 | 12-07-1999 | Gallo et al. | | | | |
| | | #US- 6,319,504 | 11-20-2001 | Gallo et al. | | | | |
| | | #US- 6,319,504 B1 | 11-20-2001 | Gallo et al. | · | | | |
| V | | #US- 2002/0041871 | 04-11-2002 | Brudnak | | | | |
| | | #US 2003/0064501 | 95-30-2002 | Khar et al. | | | | |
| KRS | | #US- 6,489,296 | 12-03-2002 | Grinnell et al. | | | | |
| KRS | | #US- 2003/0049273 A1 | 03-13-2003 | Gallo et al. | | | | |
| | + | WUS-2003/0113733 A1 | 6-19-2003 | Kimret al. | | | | |
| KRS | | #US- 6,583,109 B1 | 06-24-2003 | Gallo et al. | _ | | | |
| | \vdash | WUS-2003/0119720 A1 | 6 26 2003 | Khar et al. | | | | |
| KRS | | #US- 6,596,688 B1 | 07-22-2003 | Gallo et al. | | | | |
| KRS | | #US- 6,620,416 B1 | -09-16-2003 | . Gallo et al. | | | | |
| | | US-2003/186244 A1 | 10-02-2003 | Margas ci ai. | | | | |

| FOREIGN PATENT DOCUMENTS | | | | | | | | |
|--------------------------|------|---|--------------------------------|-----------------------------------|---|----|--|--|
| Examiner | Cite | Cite Foreign Patent Document | | Name of Patentee or | Pages, Columns, Lines, | | | |
| Initials* | No.' | Country Code ³ - Number ⁴ - Kind Code ³ (if known) | Publication Date MM-DD-YYYY | Applicant of Cited Document | Where Relevant Passages or Relevant Figures Appear | Tو | | |
| KRS | I | #WO 99/59617 · . | 11-25-1999 | Erasmus Universiteit | | | | |
| | | #WO 97/49721 | 12-31-1997 | University of Maryland | | | | |
| | | #WO 01/10907 A2 | 02-15-2001 | University of Maryland | | • | | |
| | | , - #WO 01/11048 A2 | 02-15-2001 | University of Maryland | | | | |
| | | #WO 01/72831 | 10-04-2001 | Erasmus Universiteit | | | | |
| | | #2 706 772 | 12-30-1994 | Vacsyn | | | | |
| V | | #EP 1 138 692 A1 | 10/04/2001 | Erasmus Universiteit Rotterdam | | | | |

| Examiner Signature | Date Considered | |
|-----------------------|--------------------|--|
| | | |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

DUP

DUP

DUP

. DUP

DUP

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Skind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO Complete if Known INFORMATION DISCLOSURE Application Number To be assigned Filing Date April 8, 2004 STATEMENT BY APPLICANT First Named Inventor Khan et. al. Group Art Unit To be assigned (use as many sheets as necessary) **Examiner Name** To be assigned 3077-6420US Attorney Docket Number

| | | Document Number · | Publication Date | Name of Patentee or Applicant of | Pages Columns Linus When Dalman |
|------------------------|--------------------------|--|------------------|----------------------------------|---|
| Examiner Initials * | Cite No. ¹ | Number - Kind Code ² (if known) | MM-DD-YYYY | Cited Document | Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear |
| KRS | US- 5,966,712 | | 10-12-1999 | Sabatini et al. | |
| 1 | | US- 6,278,794 | 08-21-2001 | Parekh et al. | |
| | | US- 6,379,970 | 04-30-2002 | Liebler et al. | |
| | | US- 6,507,788 | 01-14-2003 | Camara y Ferrer et al. | |
| 1/ | | US- 6,539,102 | 03-25-2003 | Anderson et al. | , |
| V | | US- 6,711,563 | 03-23-2004 | Koskas | |
| | | | | April 9 2004 | |

| | FOREIGN PATENT DOCUMENTS | | | | | | | |
|-----------|--------------------------|---|------------------|---|--|----|--|--|
| Examiner | Cite | Foreign Patent Document | Publication Date | Name of Patentee or Applicant of Cited | Pages, Columns, Lines, Where Relevant Passages or | _ | | |
| Initials* | No.3 | Country Code ³ - Number ⁴ - Kind Code ³ (If known) | MM-DD-YYYY | Document | Relevant Figures Appear | T6 | | |
| KRS | | #EP I 300 418 | 04-09-2003 | Erasmus Universiteit Rotterdam | | | | |
| | | #WO 98/35691 | 08-20-1998 | Proscript, Inc. | | | | |
| | | #WO 02/085117 | 10-31-2002 | Eisai Co., Ltd. | | | | |
| | | #DE 3715662 | 11-19-1987 | The Wellcome Foundation Ltd. | | | | |
| | | #DE 19953339 | 05-17-2001 | Goldham Pharma GmbH | | | | |
| | | #96/04008 | 02-15-1996 | Government of the United States | | | | |
| | | #97/49373 | 12-31-1997 | University of Maryland Biotechnology Institute | | | | |
| | | #97/49418 | 12-31-1997 | University of Maryland Biotechnology Institute | | | | |
| V | | #97/49432 | 12-31-1997 | University of Maryland Biotechnology Institute | | | | |
| | | WO 03/029292 A2 | 04 10 2003 | Panamus Universiteit | | | | |

| | | |
|-----------------------|--------------------|------|
| Examiner Signature | Date Considered | |
| | | |

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

DUP

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

| Substitute fo | or form 1449A | /PTO | | Complete if Known | | |
|---------------------------------------|---------------|--------|----------|------------------------|----------------|--|
| INEO | DB# A TO | ION DI | COLOCUDE | Application Number | To be assigned | |
| | | | SCLOSURE | Filing Date | April 8, 2004 | |
| STATEMENT BY APPLICANT | | | | First Named Inventor | Khan et. al. | |
| | | | | Group Art Unit | To be assigned | |
| (use as many sheets as necessary) | | | | Examiner Name | To be assigned | |
| Sheet | 3 | of | 4 | Attorney Docket Number | 3077-6420US | |

| | | OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS | | |
|-------------------------|--|---|----|--|
| Examiner Initials * | (a) (a) (a) (a) (a) (a) (b) (b) (b) (b) (c) (c) (c) (c) (c) (c) (c) (c) (c) (c | | T² | |
| KRS | | #CONNELLY et al., Biphasic Regulation of NF-kB Activity Underlies the Pro- and Anti-Inflammatory Actions of Nitric Oxide, The Journal of Immunology, 2001, pp. 3873-81, 166, The American Association of Immunologists, USA. | | |
| | | #FRIEDLANDER, Tackling anthrax, Nature, November 8, 2001, pp. 160-61, Vol. 414. | | |
| | | #MEDZHITOV, Toll-like Receptors and Innate Immunity, Nature Reviews/Immunology, November 2001, pp. 135-45, Vol. 1. | | |
| | | #LANG et al., "Induction of apoptosis in Kaposi's sarcoma spindle cell cultures by the subunits of human chorionic gonadotropin", AIDS 1997, Vol. 11, No. 11, pp.1333-1340. | | |
| | #ISKANDAR et al., "Effects of a urinary factor from women in early pregnancy on HIV-1. SIV and associated diser Nature Medicine, April 1998, Vol. 4, No. 4, pp. 428-434. #CHRISTMAN et al., Nuclear factor kappaB: a pivotal role in the systemic inflammatory response syndrome and no for therapy, Intens Care Med, 1998, pp. 1131-38, Vol. 24. | | _ | |
| | | | | |
| | | #JYONOUCHI et al., Proinflammatory and regulatory cytokine production associated with innate and adaptive immune responses in children with autism spectrum disorders and developmental regression, J Neuroim., 2001, pp. 170-79, Vol. 120. | | |
| | | #KANUNGO et al., Advanced Maturation of Heteropneustes Fossilis (Bloch) by Oral Administration of Human Chorionic Gonadotropin, J. Adv. Zool., 1999, pp. 1-5, Vol. 20. | | |
| | | #ROHRIG et al., Growth-stimulating Influence of Human Chorionic Gonadotropin (hCG) on Plasmodium falciparum in vitro, Zentralblatt Bakt, 1999, pp. 89-99, Vol. 289. | | |
| | | #TAK et al., NF-kappaB: a key role in inflammatory diseases, J Clin Invest., 2001, pp. 7-11, Vol. 107. | | |
| | | #TAN et al., The role of activation of nuclear factor-kappa B of rat brain in the pathogenesis of experimental allergic encephalomyelitis, Acta Physiol Sinica, 2003, pp. 58-64, Vol. 55. | • | |
| $\overline{\mathbf{V}}$ | | #TOVEY et al., Mucosal Cytokine Therapy: Marked Antiviral and Antitumor Activity, J. Interferon Cytokine Res., 1999, pp. 911-21, Vol. 19. | | |

| Examiner | | Date | |
|-----------|---|------------|--|
| Signature | , | Considered | |



^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number (optional), ² Applicant is to place a check mark here if English language Translation is attached.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO Complete if Known Application Number To be assigned INFORMATION DISCLOSURE Filing Date April 8, 2004 STATEMENT BY APPLICANT Khan et. al. First Named Inventor Group Art Unit To be assigned (use as many sheets as necessary) Examiner Name To be assigned Sheet of 4 3077-6420US

Attorney Docket Number

| OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS | | | | | | | |
|---|--|---|-----|--|--|--|--|
| Examiner Initials • | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | Ť² | | | | |
| KRS | | #ALBINI, A., et al., "Old drugs as novel angiogenesis inhibitors: Preclinical studies with NAC, hCG, EGCG and somatostatin," 17 CLINICAL & EXPERIMENTAL METASTASIS 739 (1999). | | | | | |
| | #BLACKWELL, Timothy S., et al., "The Role of Nuclear Factor-kB in Cytokine Gene Regulation," 17 AM. J. RESPI MOL. BIOL. 3-9 (1997). | | ELL | | | | |
| | | #KELLER, S., et al., "Human Chorionic Gonadotropin (hCG) Is a Potent Angiogenic Factor for Uterine Endothelial Cells in Vitro," 20(5-6) PLACENTA, page A37 (July 1999). | | | | | |
| | | #KHAN, Nisar A., et al., "Inhibition of Diabetes in NOD Mice by Human Pregnancy Factor," 62(12) HUMAN IMMUNOLOGY 1315-1323 (December 2001). | • | | | | |
| | | #KHAN, Nisar A., et al., "Inhibition of Septic Shock in Mice by an Oligopeptide From the β-Chain of Human Chorionic Gonadotrophin Hormone," 63(1) HUMAN IMMUNOLOGY 1-7 (January 2002). | | | | | |
| | · | #MUCHMORE et al., Immunoregulatory Properties of Fractions from Human Pregnancy Urine: Evidence that Human Chorionic Gonadotropin is not Responsible, The Journal of Immunology, March 1997, pp. 881-86, Vol. 118, No. 3. | | | | | |
| | | #MUCHMORE et al., Purification and Characterization of a Mannose-Containing Disaccharide Obtained from Human Pregnancy Urine, Journal of Experimental Medicine, December 1984, pp. 1672-85, Volume 160. | | | | | |
| | | #PATIL, A., et al., "The Study of the Effect of Human Chorionic Gonadotrophic (HCG) Hormone on the Survival of Adrenal Medulla Transplant in Brain. Preliminary Study," 87 ACTA NEUROCHIR (WIEN) 76-78 (1987). | | | | | |
| | | #SLATER, Lewis M., et al., "Decreased Montality of Murine Graft-Versus-Host Disease by Human Chorionic gonadotropin, "23(1) TRANSPLANTATION 103-104 (January 1977). | | | | | |
| | | #WULCZYN, F. Gregory, et al., "The NF-kB/Rel and IkB gene families: mediators of immune response and inflammation," 74(12) J. MOL. MED. 749-769 (1996). | - | | | | |
| $\overline{\mathbf{V}}$ | | #YAMAMOTO, Y., et al., "Role of the NF-kB Pathway in the Pathogenesis of Human Disease States," 1(3) CURRENT MOLECULAR MEDICINE 287-296 (July 2001). | _ | | | | |

| Examiner Signature | /Karlheinz Skowronek/ | Date Considered | 01/05/2007 |
|-----------------------|-----------------------|--------------------|------------|
| | | | |

#Pursuant to 37 C.F.R. § 1.98(d), copies of the previously identified patents are not being provided since they were previously cited by or submitted to the Office in the following prior application:

Serial No.: 10/753,510 Filed: January 7, 2004

For: IMMUNOREGULATORY COMPOSITIONS, which application is being relied upon for an earlier filing date under 35 U.S.C. § 120.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01

Approved for use through 10/31/2002. OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Index the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

MAY 1 7 2004

Sheet

| - | Complete if Known | |
|------------------------|-------------------|--|
| Application Number | 10/821,240 | |
| Filing Date | April 8, 2004 | |
| First Named Inventor | Khan et al. | |
| Group Art Unit | To be assigned | |
| Examiner Name | To be assigned | |
| Attorney Docket Number | 3077-6384US | |

| | | T | U.S. PATENT D | 7 | |
|------------------------|--------------|---|--------------------------------|---|--|
| Examiner Initials * | Cite No.1 | Document Number Number - Kind Code ³ (if known) | Publication Date MM-DD-YYYY | Name of Patentee or Applicant of Cited Document | Pages, Cohmus, Lines, Where Relevant Passages or Retevant Figures Appear |
| KRS | | #US-5,380,668 | 01-10-1995 | Негтоп | |
| 1 | | #US- 2003/0186244 A1 | 10-02-2003 | Margus et al. | |
| | | #US- 2003/0113733 A1 | 06-19-2003 | Khan et al. | |
| | | #US- 2003/0119720 A1 | 06-26-2003 | Khan et al. | |
| | | #US- 2002/0064501 A1 | 05-30-2002 | Khan et al. | |
| | | #US- 2003/0166556 A1 | 09-04-2003 | Khan et al. | |
| | | #US- 2003/0215434 A1 | 11-20-2003 | Khan et al. | |
| | | #U\$- 2003/0219425 A1 | 11-27-2003 | Khan et al. | |
| | | #US- 2003/0220257 A1 | 11-27-2003 | Benner et al. | |
| | | #US- 2003/0220258 A1 | 11-27-2003 | . Benner et al. | |
| | | #US- 2003/0220259 A1 | . 11-27-2003 | Benner et al. | |
| | | #US- 2003/0220260 A1 | 11-27-2003 | Khan et al. | • |
| | | #US- 2003/0220261 A1 | 11-27-2003 | Khan et al. | |
| 7 | | #US- 2003/0224995 A1 | 12-04-2003 | Khan et al. | |
| V | | #US- 2004/0013661 A1 | 01-22-2004 | Wensvoort et al. | |
| | | US- | | | |
| | I | 119. | | | |

| - 0: | | Foreign Patent Document | | Name of Patentee or | Pages, Columns, Lines, | |
|-----------------------|--------------------------|---|-----------------------------|-----------------------------------|---|----------------|
| Examiner Initials* | Cite No. ¹ | Country Code ³ - Number ⁴ - Kind Code ³ (if known) | Publication Date MM-DD-YYYY | Applicant of Cited Document | Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| KRS | | #WO 03/029292 A2 | 04-10-2003 | Erasmus Universitelt Rotterdam | | |
| | ļ | | | | | |
| | | | | | | |

| Examiner /Karlheinz Skowronek/ | Date Considered | 01/05/2007 |
|--------------------------------|--------------------|------------|
|--------------------------------|--------------------|------------|

#Pursuant to 37 C.F.R. § 1.98(d), copies of the previously identified patents are not being provided since they were previously cited by or submitted to the

Office in the following prior application: Serial No.: 10/753,510 Filed: 1/7/2004

For: IMMUNOREGULATORY COMPOSITIONS, which application is being relied upon for an earlier filing date under 35 U.S.C. § 120.

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ¹ See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ¹ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Tradermark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO
ADDITION DISCLOSURE
STATEMENT BY APPLICANT

First N

of I

(use as many sheets as necessary)

| | | | U.S. PATENT D | | |
|------------|------|--|------------------|----------------------------------|---------------------------------------|
| Examiner | Cite | Document Number | Publication Date | Name of Patentee or Applicant of | Pages, Columns, Lines, Where Relevant |
| Initials * | No.' | Number - Kind Code ¹ (If known) | MM-DD-YYYY | Cited Document | Passages or Relevant Figures Appear |
| | | US- | | - | |
| | | us- | | | |
| | | US | | | |
| | | US- | | | |
| | 1 | US- | | | |
| | | US- | • | | |
| | | US- (| | | |
| | | US- | | | |
| | - 0 | US- | | | |
| | | US- | | | |

| | FOREIGN PATENT DOCUMENTS | | | | | |
|-----------------------------|--------------------------|---|-----------------------------|-----------------------------|---|----------------|
| Examiner Cite Initials* No. | Cite | Foreign Patent Document |] | Name of Patentee or | Pages, Columns, Lines, | |
| | | Country Code ³ - Number ⁴ - Kind Code ⁵ (if known) | Publication Date MM-DD-YYYY | Applicant of Cited Document | Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| KRS | | WO 01/68113 | 09-20-2001 | Monsanto Company | | |
| | | | | | | |
| | | | | | | |
| | | 0 | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | -: |
| | | | | · | | |

| Examiner Signature | /Karlheinz Skowronek/ | Date Considered | 01/05/2007 |
|-----------------------|-----------------------|--------------------|------------|
| | | | |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ³ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.



PTO/SB/08B(10-03)
Approved for use through 7/31/2006. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless a contains a valid OMB control number

Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 10/821,240

Filing Date April 8, 2004

First Named Inventor Khan et al.

Group Art Unit 1648

Examiner Name To be assigned

Complete if Known

(use as many sheets as necessary)

Sheet 1 of 1 Attorney Docket Number 3077-638411S

| Examiner Initials * | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | T² | | |
|------------------------|-------------|---|----|--|--|
| KRS | | KACHRA et al., "Low Molecular Weight Components but Not Dimeric HCG Inhibit Growth and Down-Regulate AP-1 Transcription Factor in Kaposi's Sarcoma Cells," Endocrinology, 1997, pp. 4038-4041, vol. 138, no. 9. | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | - | | | | |
| • | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

| Examiner Signature | /Karlheinz Skowronek/ | Date Considered | 01/05/2007 | |
|-----------------------|-----------------------|--------------------|------------|--|
|-----------------------|-----------------------|--------------------|------------|--|

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08A (10-01)

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE d to a collection of information unless it contains a valid OMB control re

| | HE WAS TO SERVICE THE PARTY OF | | | | | |
|------|---|-----------|-------------|------------------------|-------------------|--|
| | for form 1449A/PT | 0 | | | Complete if Known | |
| NFC | DRMATIC | N DI | SCLOSURE | Application Number | 10/821,240 | |
| | | | PPLICANT | Filing Date | April 8, 2004 | |
| JIA. | | | I I DICINIT | First Named Inventor | Khan et al. | |
| | | | | Group Art Unit | 1648 | |
| | (use as many | sheets as | necessary) | Examiner Name | To be assigned | |
| heet | 1 | of | 2 | Attorney Docket Number | 3077-6384US | |

APR 1 2 2006

| | U.S. PATENT DOCUMENTS | | | | | | |
|------------------------|-----------------------|--|------------------|----------------------------------|---------------------------------------|--|--|
| | | Document Number | Publication Date | Name of Patentee or Applicant of | Pages, Columns, Lines, Where Relevant | | |
| Examiner Initials * | Cite No.1 | Number - Kind Code ² (if known) | MM-DD-YYYY | Cited Document | Passages or Relevant Figures Appear | | |
| KRS | | US-6,727,227 | 04-27-2004 | Khavinson | | | |
| | | US- | | | | | |
| | | US- | | | | | |
| | | US- | | | | | |
| | | US- | | | - | | |
| | | US- | | | | | |
| | | US- | | | | | |
| | | US- | | | | | |
| | | US- | | | | | |
| | 1 | US- | | | | | |
| | | US- | | | | | |
| | | US- | | 1 | | | |
| | | US- | | | | | |
| | | US- | | | | | |
| | | US- | | | | | |
| | I | US- | | 1 | | | |
| | | US- | | | | | |

| | | | ATENT DOCU | | · · · · · · · · · · · · · · · · · · · | |
|-----------|------------------|---|--------------------------------|--|---|----|
| Examiner | Cite | Foreign Patent Document | J 1 | Name of Patentee or | Pages, Columns, Lines, | |
| Initials* | No. ¹ | Country Code ³ - Number ⁴ - Kind Code ³ (if known) | Publication Date MM-DD-YYYY | Applicant of Cited Document | Where Relevant Passages or Relevant Figures Appear | Té |
| KRS | | WO 01/29067 | 04-26-2001 | Obschestvo S Ogranichennol Otvetstvennostiju "Klinika Instituta Bioregulyatsii I Gerontologii" | | |
| | | | | | | |
| | | | | | | |
| | | | | · | | |
| | | | | | <u> </u> | |
| | | | | | | |
| | | | | | | |
| | | | | | ļ | |

| Examiner Signature | Date Considered | · |
|-----------------------|--------------------|---|

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. that issued the document, by the two-letter code (WIPO Standard ST.3). For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.



Substitute for form 1449A/PTO

PTO/SB/08B(10-03)

Approved for use through 7/31/2006. OMB 0651-0031

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

INFORMATION DISCLOSURE STATEMENT BY APPLICANT Complete if Known

Application Number 10/821,240

Filing Date April 8, 2004

First Named Inventor Khan et al.

Group Art Unit 1648

Examiner Name To be assigned

Attorney Docket Number 3077-6384US

(use as many sheets as necessary) Examiner Name To be assigned

Sheet 2 of 2 Attorney Docket Number 3077-63841IS

| Examiner Cite Initials • No. | | [(coon, magazine, journal, serial, symposium, catalog, etc.), cate, page(s), volume-issue mambel(s), paginsile, | |
|------------------------------|--|---|--|
| KRS | | IVANOV et al., "Hemoglobin as a Source of Endogenous Bioactive Peptides: The Concept of Tissue-Specific Peptide Pool," Biopolymers, 1997, pp. 171-188, Vol. 39. | |
| | | KHAVINSON et al, Gerontological Aspects of Genome Peptide Regulation, 2005, S. Karger AG, Basel, Switzerland. | |
| | | KHAVINSON et al., "Effects of Livagen Peptide on Chromatin Activation in Lymphocytes from Old People," Bulletin of Experimental Biology and Medicine, October 2002, pp. 389-392, Vol. 134, No. 4. | |
| | | KHAVINSON et al., "Effects of Short Peptides on Lymphocyte Chromatin in Senile Subjects," Bulletin of Experimental Biology and Medicine, January 2004, pp. 78-81, Vol. 137, No. 1. | |
| | | KHAVINSON et al., "Epithalon Peptide Induces Telomerase Activity and Telomere Elongation in Human Somatic Cells," Bulletin of Experimental Biology and Medicine, June 2003, pp. 590-592, Vol. 135, No. 6. | |
| | | KHAVINSON et al., "Inductive Activity of Retinal Peptides," Bulletin of Experimental Biology and Medicine, November 2002, pp. 482-484, Vol. 134, No. 5. | |
| | | KHAVINSON et al., "Mechanisms Underlying Geroprotective Effects of Peptides," Bulletin of Experimental Biology and Medicine, January 2002, pp. 1-5, Vol. 133, No. 1. | |
| | | KHAVINSON et al., "Peptide Promotes Overcoming of the Division Limit in Human Somatic Cell," Bulletin of Experimental Biology and Medicine, May 2004, pp. 503-506, Vol. 137, No. 5. | |
| $\sqrt{}$ | | MOROZOV et al., "Natural and Synthetic Thymic Peptides as Therapeutics for Immune Dysfunction," Int. J. Immunopharmac., 1997, pp. 501-505, Vol. 19, No. 9/10. | |
| | | | |
| • | | | |

| Examiner | /Vanlhainz Charmanalz/ | Date | 05 /05 /0005 |
|-----------|------------------------|------------|--------------|
| Signature | /Karlheinz Skowronek/ | Considered | 01/05/2007 |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Unique citation designation number (optional). Applicant is to place a check mark here if English language Translation is attached.

Approved for use through 10/31/2002. OMB 0651-0031

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

ubstitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number 10/821,240

Filing Date April 8, 2004

First Named Inventor Khan et al.

Group Art Unit 1631

Examiner Name R. Negin

 (use as many sheets as necessary)
 Examiner Name
 R. Negin

 Sheet
 1
 of
 4
 Attorney Docket Number
 3077-6384US

| Examiner | Cite | Document Number | Publication D | Date | Name o | Patentee or Applicant of | Pages, Columns, Lines, Where R | televant |
|---------------------|------|---|----------------------------|------------------------|--|---|---|----------------|
| Initials * | No. | Number - Kind Code ² (if known) | MM-DD-YY | YYYY | | Cited Document | Passages or Relevant Figures Appear | |
| KRS | | #US- 4,427,660 | 01-1984 | | | Schiffman et al. | | |
| | | #US- 4,571,336 | 02-1986 | | | Houck et al. | | |
| | | #US- 4,753,965 | 06-1988 | | | Stemerick et al. | | |
| | | #US- 4,855,285 | 08-1989 | | | Stevens | | |
| | | #US- 5,002,961 | 03-1991 | | • | Dage et al. | | |
| | | #US- 5,854,004 | 12-1998 | | С | zentilofsky et al. | | |
| | | #US- 5,223,397 | 06-1993 | | | Pouletty | | |
| | | #US- 5,801,193 | 09-1998 | | C | o-Amaize et al. | | |
| | | #US- 5,942,494 | 08-1999 | | | Ginsberg et al. | | |
| | | #US- 5,972,924 | 10-1999 | | | Keep et al. | | |
| | | #US- 5,994,126 | 11-1999 | | | Steinman et al. | | |
| | | #US- 5,981,486 | 11-1999 | | N | fatsushima et al. | | |
| | | #US- 6,051,596 | 04-2000 | | Badger | | | |
| | | #US- 6,075,150 | 06-2000 | | Wang et al. | | | |
| 1 | | #US- 6,150,500 | 11-2000 | | | Salemo | | |
| | | #US- 6,235,281 | 05-2001 | | Stenzel et al. Haddox et al. Szkudlinski et al. Pluenneke | | | |
| | | #US- 6,310,041 | 10-2001 | | | | | |
| | | #US- 6,361,992 | 03-2002 | | | | | • |
| | | #US- 2003/0148955 | 08-2003 | | | | | |
| | | #US- 6,630,138 | 10-2003 | | Gerlitz et al. | | | |
| | | #US- 6,831,057 | 12-2004 | | Baldwin et al. Khan et al. Khan et al. Khan et al. | | | |
| | | #US- 6,844,315 | - 01-2005 | | | | | |
| | | #US- 2004/0208885 A1 | 10-21-200 | 4 | | | | |
| | | US- 2005/0214943 A1 | 09-29-200 | 5 | | | | |
| | | US- 2005/0227925 A1 | 10-13-200 | 5 | | Benner et al. | | |
| | | US- 2006/0111292 A1 | 05-25-200 | 6 | Khan et al. | | | |
| V | | US- 2006/0142205 A1 | 06-29-200 | 6 | | Benner et al. | | |
| | | F | OREIGN PA | TENT D | OCU | MENTS | | |
| xaminer | Cite | Foreign Patent Docu | ment | A. 15-4 | | Name of Patentee or | Pages, Columns, Lines, | |
| nitials* | No.1 | Country Code ³ - Number ⁶ - Kind Co | de ³ (if known) | Publication MM-DD-Y | | Applicant of Cited Document | Where Relevant Passages or Relevant Figures Appear | T ⁶ |
| KRS | | #WO 98/34631 A | il . | 08-199 | 8 | Thomas Jefferson University | | |
| KRS | | #WO 2001/83554 | A2 | 11-200 | 01 | Praecis Pharmaceuticals Incorporated et al. | | |
| KRS | | GB 2 194 886 A | \ | 03-23-19 | 988 | The Wellcome Foundation Limited | | |
| xaminer ignature | | | | | ate onside | d | | |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

| Substitute fo | r form 1449A/PTO | | • | | Complete if Known |
|---------------|------------------|--------|------------|------------------------|-------------------|
| TNEO | | TDT | COL OCUME | Application Number | 10/821,240 |
| | | | SCLOSURE | Filing Date | April 8, 2004 |
| STAT | EMENT B | ΥA | PPLICANT | First Named Inventor | Khan et al. |
| | | | | Group Art Unit | 1631 |
| | (use as many she | ets as | necessary) | Examiner Name | R. Negin |
| Sheet | 2 | of | 4 | Attorney Docket Number | 3077-6384US |

| Examiner Initials * No.1 | | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | Τ; |
|--------------------------|---|---|----|
| | | #ABRAHAM, E., "Coagulation Abnormalities in Acute Lung Injury and Sepsis," Am. J. Respir. Cell Mol. Biol., 2000, pp. 401-404, Vol. 22. | |
| | | #ADIB-CONQUY et al., "NF-kappaB Expression in Mononuclear Cells in Patients with Sepsis Resembles That Observed in Lipopolysaccharide Tolerance," Arn. J. Respir. Crit. Care Med., 2000, pp. 1877-1883, Vol. 162. | |
| | | #ARIMA et al., "IL-2-Induced Growth of CD8+ T Cell Prolymphocytic Leukemia Cells Mediated by NF-kappaB Induction and IL-2 Receptor alpha Expression," Leukemia Research, 1998, pp. 265-273, Vol. 22, No. 3. | |
| | | #BAEUERLE et al., "Function and Activation of NF-kappaB in the Immune System," Annu. Rev. Immunol., 1994, pp. 141- 179, Vol. 12. | |
| | | #BETHEA et al., "Traurratic Spinal Cord Injury Induces Nuclear Factor-kappaB Activation," The Journal of Neuroscience, I May 1998, pp. 3251-3260, Vol. 18, No. 9. | |
| | | #BODFISH et al., "Treating the Core Features of Autism: Are We There Yet?" Mental Retardation and Developmental Disabilities Research Reviews, 2004, pp. 318-326, Vol. 10. | |
| | | #BROWN et al., "Two Forms of NF-kappaB1 (p105/p50) in Murine Macrophages: Differential Regulation by Lipopolysaccharide, Interleukin-2, and Interferon-gamma," Journal of Interferon and Cytokine Research, 1997, pp. 295-306, Vol. 17. | |
| | | #CUI et al., Am. J. Physiol. Integr. Comp. Physiol., 2004, pp. R699-R709, Vol. 286. | |
| | · | #DWINNELL et al., Atlas of Diseases of the Kidney, Blackwell Sciences, 1999, pp. 12.1-12.12, Ch. 12. | |
| | | #EMMEL et al., "Cyclosporin A Specifically Inhibits Function of Nuclear Proteins Involved in T Cell Activation," Science, 22 December 1989, pp. 1617-1620, Vol. 246. | |
| | | #EPINAT et al., "Diverse agents act at multiple levels to inhibit the Rel/NF-kappaB signal transduction pathway," Oncogene, 1999, pp. 6896-6909, Vol. 18. | • |
| | | #FAUST et al., "Disseminated intravascular coagulation and purpura fulminans secondary to infection," Bailliere's Clinical Haematology, 2000, 179-197, Vol. 13. No. 2. | |
| | | #JIMENEZ-GARZA et al., "Early Effects of Modulating Nuclear factor-kappaB Activation on Traumatic Spinal Cord Injury in Rats," Ann. N.Y Acad. Sci., 2005, pp. 148-150, Vol. 1053. | |

| Examiner | Date | |
|-----------|------------|--|
| Signature | Considered | |

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO Complete if Known Application Number 10/821,240 INFORMATION DISCLOSURE Filing Date April 8, 2004 STATEMENT BY APPLICANT Khan et al. First Named Inventor 1631 Group Art Unit (use as many sheets as necessary) Examiner Name R. Negin 3077-6384US Sheet of Attorney Docket Number

| Examiner Initials • | Cite No.1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | т |
|------------------------|--------------|---|---|
| KRS | | #KALNS et al., Biochem. Biophys. Res. Comm., 2002, pp. 506-09, Vol. 297. | |
| | | #KIDD et al., "Autism, An Extreme Challenge to Integrative Medicine. Part II: Medical Management," Alternative Medicine Review, 2002, pp. 472-499, Vol. 7, No. 6. | |
| | | #KRONFOL et al., "Cytokines and the Brain: Implications for Clinical Psychiatry," Am. J. Psychiatry, May 2000, pp. 683-694, Vol. 157, No. 5. | |
| | | #LI et al., "NF-kappaB Regulation in the Immune System." Nature Reviews/Immunology, October 2002, pp. 725-734, Vol. 2. | |
| | | #MALEK-AHMADI, P., "Role of Cytokines in Psychopathology: Therapeutic Implications," Drug News Prospects, June 1998, pp. 271-276, Vol. 11, No. 5. | |
| | | #MCBEAN et al., "Rodent Models of Global Cerebral Ischemia: A Comparison of Two-Vessel Occlusion and Four-Vessel Occlusion," Gen. Pharmac., 1998, pp. 431-434, Vol. 30, No. 4. | |
| | | #MCDONALD et al., "Interleukin-15 (IL-15) Induces NF-kappaB Activation and IL-8 Production in Human Neutrophils," Blood, 15 December 1998, pp. 4828-4835, Vol. 92, No. 12. | |
| | | #Merck Index, 17th ed. 1999, pp. 1145-1146, 1841-1848, 2539, 2551. | |
| | | #Merriam-Webster Medical Dictionary, 1994, p. 82. | |
| | | #MOAYERI et al., Journal of Clinical Investigation, September 2003, pp. 670-82, Vol. 112, No. 5. | |
| | | #NEELY et al., "Then and now: Studies using a burned mouse model reflect trends in burn research over the past 25 years," Burns, 1999, pp. 603-609, Vol. 25. | |
| | | #NGO et al., The protein folding problem and tentary structure prediction, 1994, pp. 492-94. | |
| | | #PELLIZZARI et al., FEBS Letters, 1999, pp. 199-204, Vol. 462. | |
| | | #SAMANIEGO et al., Induction of Programmed Cell Death in Kaposi's Sarcoma Cells by Preparations of Human Chorionic Gonadotropin, Journal of the National Cancer Institute, January 20, 1999, pp. 135-43, Vol. 91, No. 2. | |
| | | #SMITH et al., "Recent developments in drug therapy for multiple sclerosis," Multiple Sclerosis, 1999, pp. 110-120, Vol. 5. | |
| Λ | | #TRAYSTMAN, R., "Animal Models of Focal and Global Cerebral Ischemia," ILAR Journal, 2003, pp. 85-95, Vol. 44, No. 2. | |

| Examiner | Date | |
|-----------|------------|--|
| Signature | Considered | |



^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number (optional). ² Applicant is to place a check mark here if English language Translation is attached.

U.S. Pajent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO Complete if Known 10/821,240 Application Number INFORMATION DISCLOSURE Filing Date April 8, 2004 STATEMENT BY APPLICANT Khan et al. First Named Inventor 1631 Group Art Unit (use as many sheets as necessary) Examiner Name R. Negin 3077-6384US of 4 Attorney Docket Number Sheet

| | | A A A A CONDITAL I ETTERON SAL CALL WALL AND A CALL SALES | | | | | |
|------------------------|-------------|---|---|--|--|--|--|
| Examiner Initials • | Cite No. | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published. | | | | | |
| KRS | | #WEINBERGER et al., "Mechanisms Mediating the Biologic Activity of Synthetic Proline, Glycine, and Hydroxyproline Polypeptides in Human Neurophils," Mediators of Inflammation, 2005, pp. 31-38, Vol. 1. | | | | | |
| KRS | | #YANG et al., "Increased cortical nuclear factor kappaB (NF-kappaB) DNA binding activity after traumatic brain injury in rats," Neuroscience Letters, 1995, pp. 101-104, Vol. 197. | | | | | |
| | | | | | | | |
| | | * | - | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

| Examiner Signature | /Karlheinz Skowronek/ | Date Considered | 01/05/2007 |
|-----------------------|-----------------------|--------------------|------------|
|-----------------------|-----------------------|--------------------|------------|

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

#Pursuant to 37 C.F.R. § 1.98(d), copies of the previously identified patents are not being provided since they were previously cited by or submitted to the Office in the following prior application:

Serial No.: 10/028,075 Filed: December 21, 2001

For: GENE REGULATOR, which application is being relied upon for an earlier filing date under 35 U.S.C. § 120.

Unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.